New MD planning tool

Bartek Urbaniec on behalf of ASM-Team, BE-CO-DS

MSWG meeting #3, 06-04-2018

Accelerator Schedule Management

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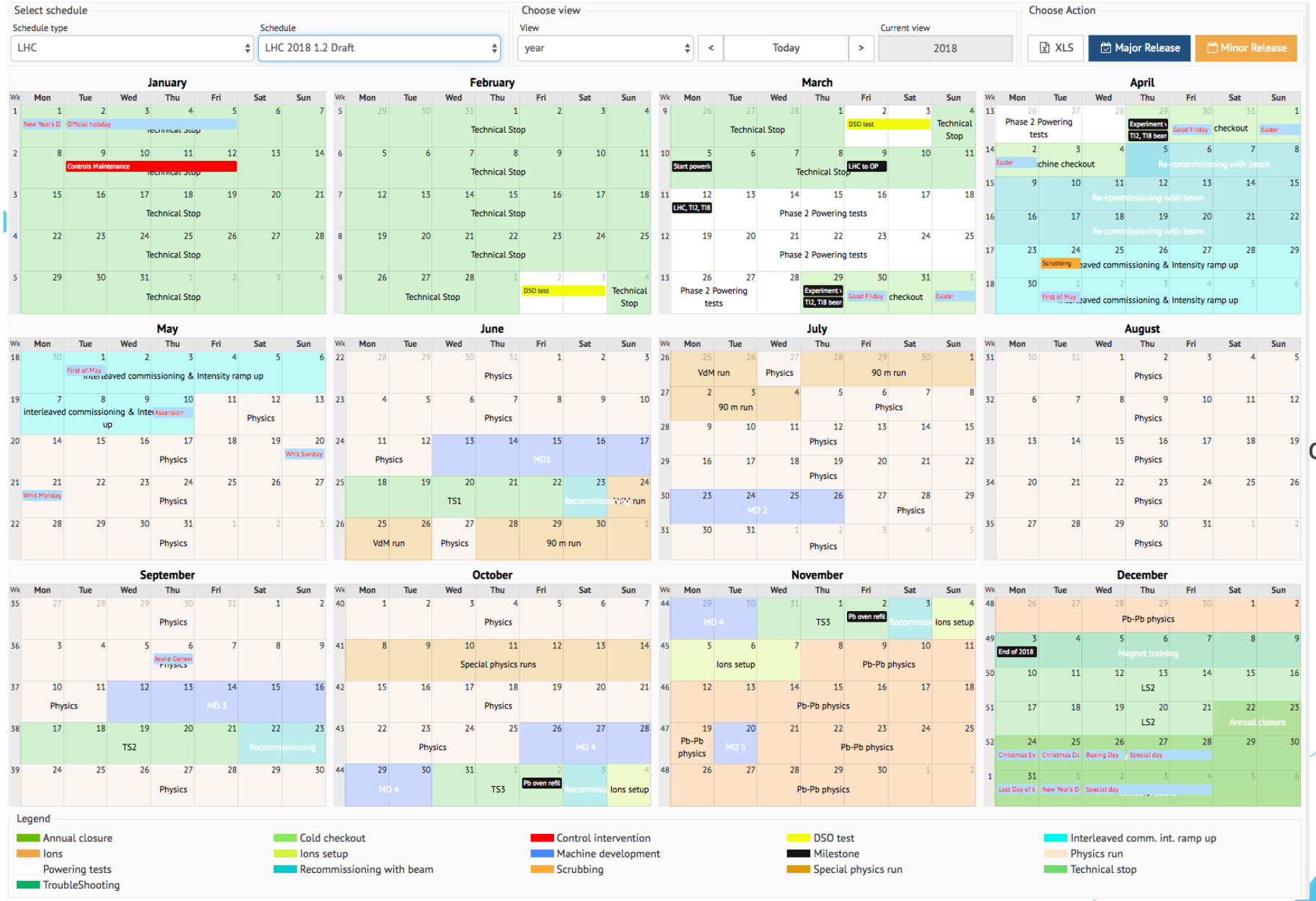
Accelerator Schedule Management



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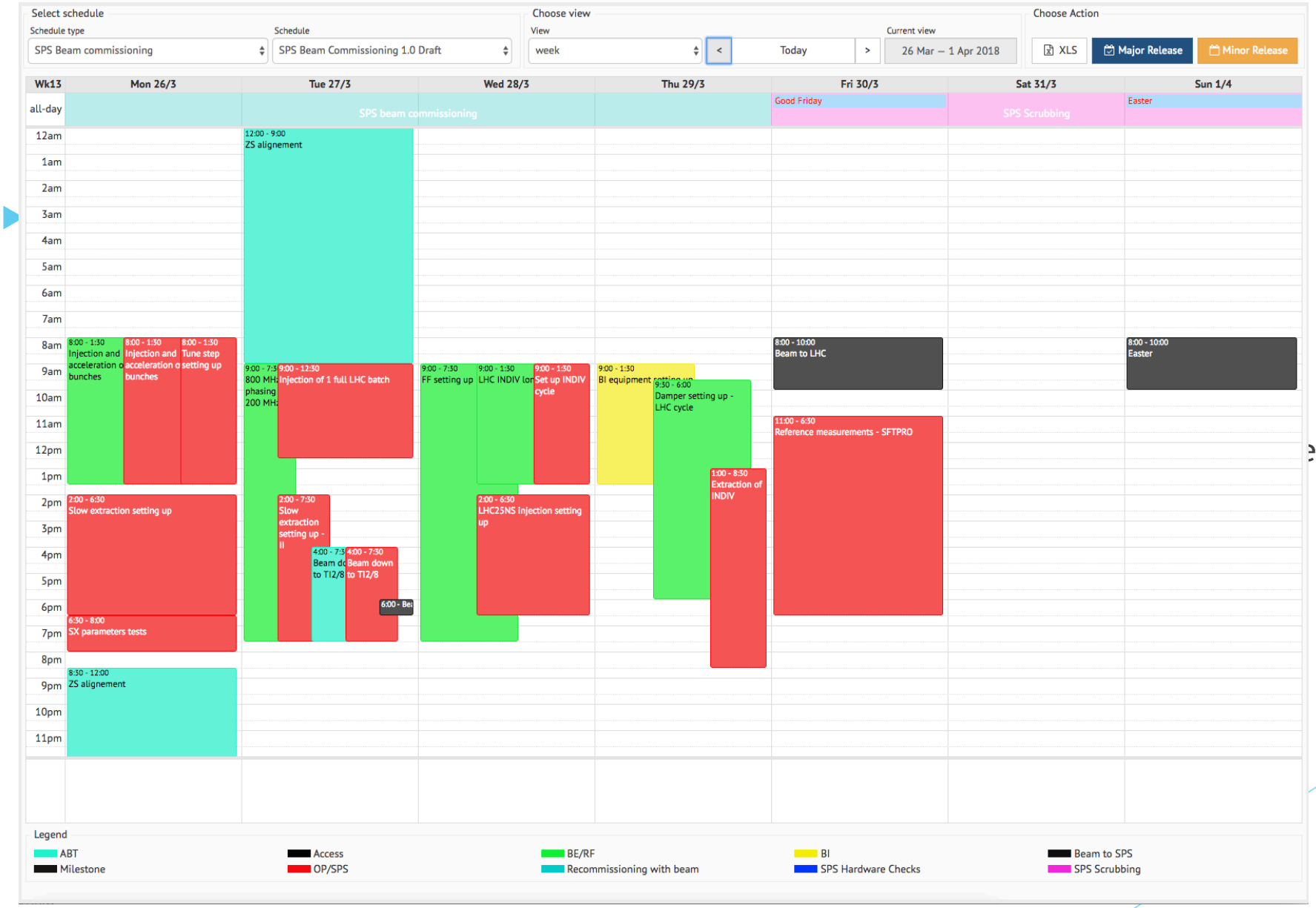

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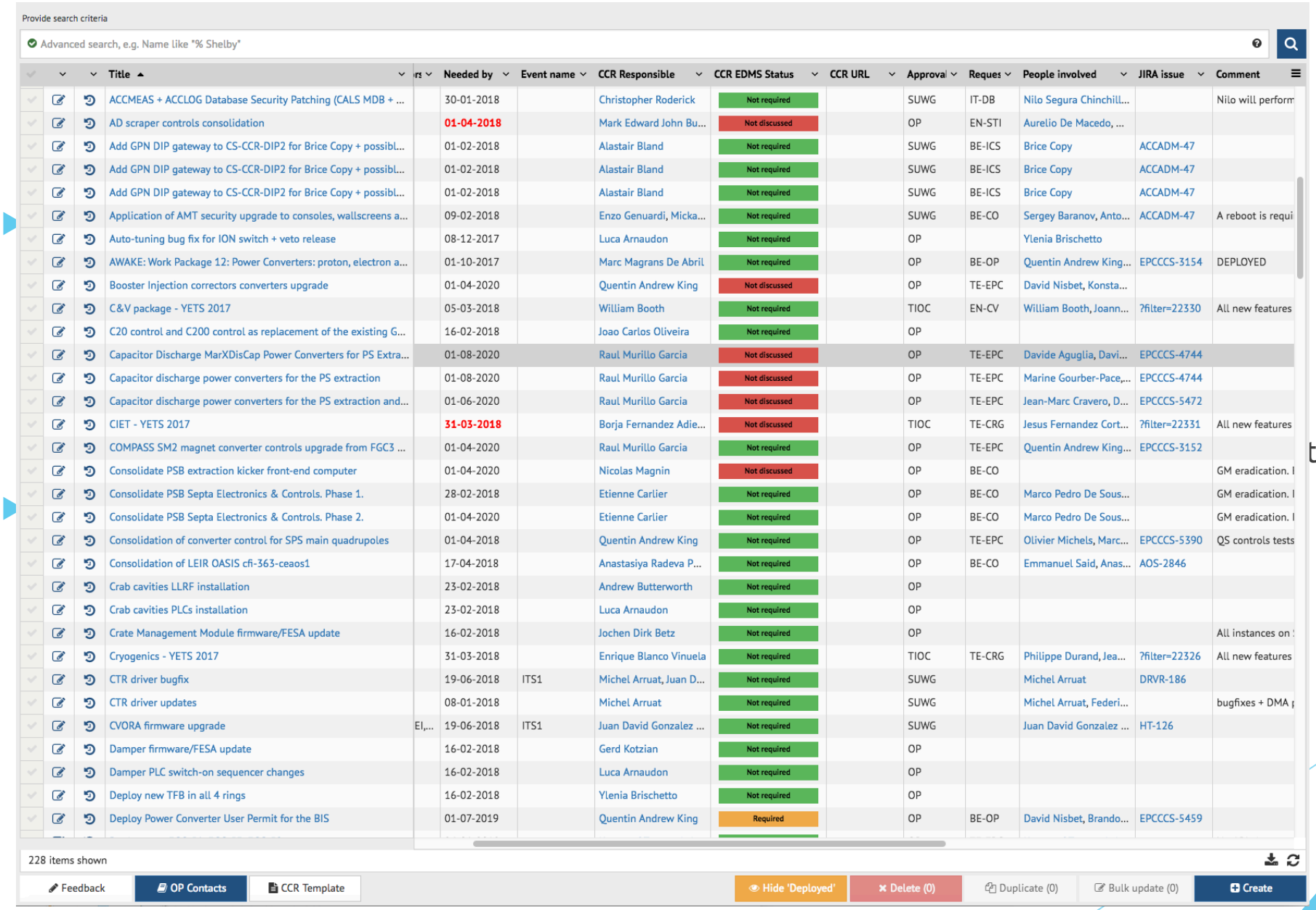

Title	Needed by	Event name	CCR Responsible	CCR EDMS Status	CCR URL	Approval	Reques	People involved	JIRA issue	Comment
ACCMEAS + ACCLOG Database Security Patching (CALS MDB + ...	30-01-2018		Christopher Roderick	Not required		SUWG	IT-DB	Nilo Segura Chinchill...		Nilo will perform
AD scraper controls consolidation	01-04-2018		Mark Edward John Bu...	Not discussed		OP	EN-STI	Aurelio De Macedo, ...		
Add GPN DIP gateway to CS-CCR-DIP2 for Brice Copy + possibl...	01-02-2018		Alastair Bland	Not required		SUWG	BE-ICS	Brice Copy	ACCADM-47	
Add GPN DIP gateway to CS-CCR-DIP2 for Brice Copy + possibl...	01-02-2018		Alastair Bland	Not required		SUWG	BE-ICS	Brice Copy	ACCADM-47	
Add GPN DIP gateway to CS-CCR-DIP2 for Brice Copy + possibl...	01-02-2018		Alastair Bland	Not required		SUWG	BE-ICS	Brice Copy	ACCADM-47	
Application of AMT security upgrade to consoles, wallscreens a...	09-02-2018		Enzo Genuardi, Micka...	Not required		SUWG	BE-CO	Sergey Baranov, Anto...	ACCADM-47	A reboot is requi
Auto-tuning bug fix for ION switch + veto release	08-12-2017		Luca Arnaudon	Not required		OP		Ylenia Brischetto		
AWAKE: Work Package 12: Power Converters: proton, electron a...	01-10-2017		Marc Magrans De Abril	Not required		OP	BE-OP	Quentin Andrew King...	EPCCCS-3154	DEPLOYED
Booster Injection correctors converters upgrade	01-04-2020		Quentin Andrew King	Not discussed		OP	TE-EPC	David Nisbet, Konsta...		
C&V package - YETS 2017	05-03-2018		William Booth	Not required		TIOC	EN-CV	William Booth, Joann...	?filter=22330	All new features
C20 control and C200 control as replacement of the existing G...	16-02-2018		Joao Carlos Oliveira	Not required		OP				
Capacitor Discharge MarXDisCap Power Converters for PS Extra...	01-08-2020		Raul Murillo Garcia	Not discussed		OP	TE-EPC	Davide Aguglia, Davi...	EPCCCS-4744	
Capacitor discharge power converters for the PS extraction	01-08-2020		Raul Murillo Garcia	Not discussed		OP	TE-EPC	Marine Gourber-Pace,...	EPCCCS-4744	
Capacitor discharge power converters for the PS extraction and...	01-06-2020		Raul Murillo Garcia	Not discussed		OP	TE-EPC	Jean-Marc Cravero, D...	EPCCCS-5472	
CIET - YETS 2017	31-03-2018		Borja Fernandez Adie...	Not discussed		TIOC	TE-CRG	Jesus Fernandez Cort...	?filter=22331	All new features
COMPASS SM2 magnet converter controls upgrade from FGC3 ...	01-04-2020		Raul Murillo Garcia	Not required		OP	TE-EPC	Quentin Andrew King...	EPCCCS-3152	
Consolidate PSB extraction kicker front-end computer	01-04-2020		Nicolas Magnin	Not discussed		OP	BE-CO			GM eradication. I
Consolidate PSB Septa Electronics & Controls. Phase 1.	28-02-2018		Etienne Carlier	Not required		OP	BE-CO	Marco Pedro De Sous...		GM eradication. I
Consolidate PSB Septa Electronics & Controls. Phase 2.	01-04-2020		Etienne Carlier	Not required		OP	BE-CO	Marco Pedro De Sous...		GM eradication. I
Consolidation of converter control for SPS main quadrupoles	01-04-2018		Quentin Andrew King	Not required		OP	TE-EPC	Olivier Michels, Marc...	EPCCCS-5390	QS controls tests
Consolidation of LEIR OASIS cfi-363-ceaos1	17-04-2018		Anastasiya Radeva P...	Not required		OP	BE-CO	Emmanuel Said, Anas...	AOS-2846	
Crab cavities LLRF installation	23-02-2018		Andrew Butterworth	Not required		OP				
Crab cavities PLCs installation	23-02-2018		Luca Arnaudon	Not required		OP				
Crate Management Module firmware/FESA update	16-02-2018		Jochen Dirk Betz	Not required		OP				All instances on
Cryogenics - YETS 2017	31-03-2018		Enrique Blanco Vinuela	Not required		TIOC	TE-CRG	Philippe Durand, Jea...	?filter=22326	All new features
CTR driver bugfix	19-06-2018	ITS1	Michel Arruat, Juan D...	Not required		SUWG		Michel Arruat	DRVR-186	
CTR driver updates	08-01-2018		Michel Arruat	Not required		SUWG		Michel Arruat, Federi...		bugfixes + DMA
CVORA firmware upgrade	19-06-2018	ITS1	Juan David Gonzalez ...	Not required		SUWG		Juan David Gonzalez ...	HT-126	
Damper firmware/FESA update	16-02-2018		Gerd Kotzian	Not required		OP				
Damper PLC switch-on sequencer changes	16-02-2018		Luca Arnaudon	Not required		OP				
Deploy new TFB in all 4 rings	16-02-2018		Ylenia Brischetto	Not required		OP				
Deploy Power Converter User Permit for the BIS	01-07-2019		Quentin Andrew King	Required		OP	BE-OP	David Nisbet, Brando...	EPCCCS-5459	

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- **Machine Development** planning
  - *Focus of this presentation…*

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Aim: replace legacy application with an easy-to-use tool to manage / schedule MD requests, integrated with the accelerator schedules, and fully maintained.

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It’s all about MDs, not the tools!

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New features and improvements

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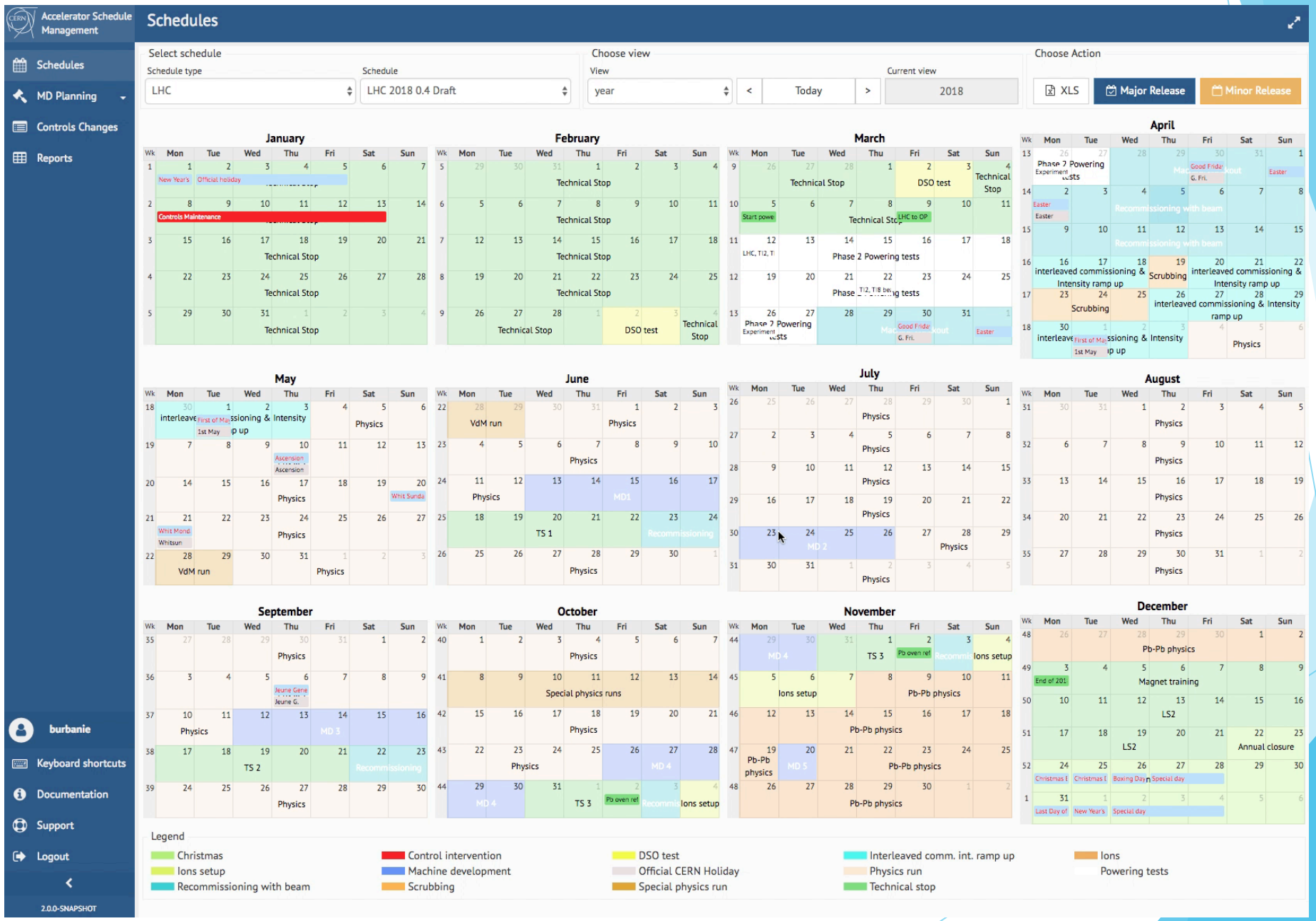
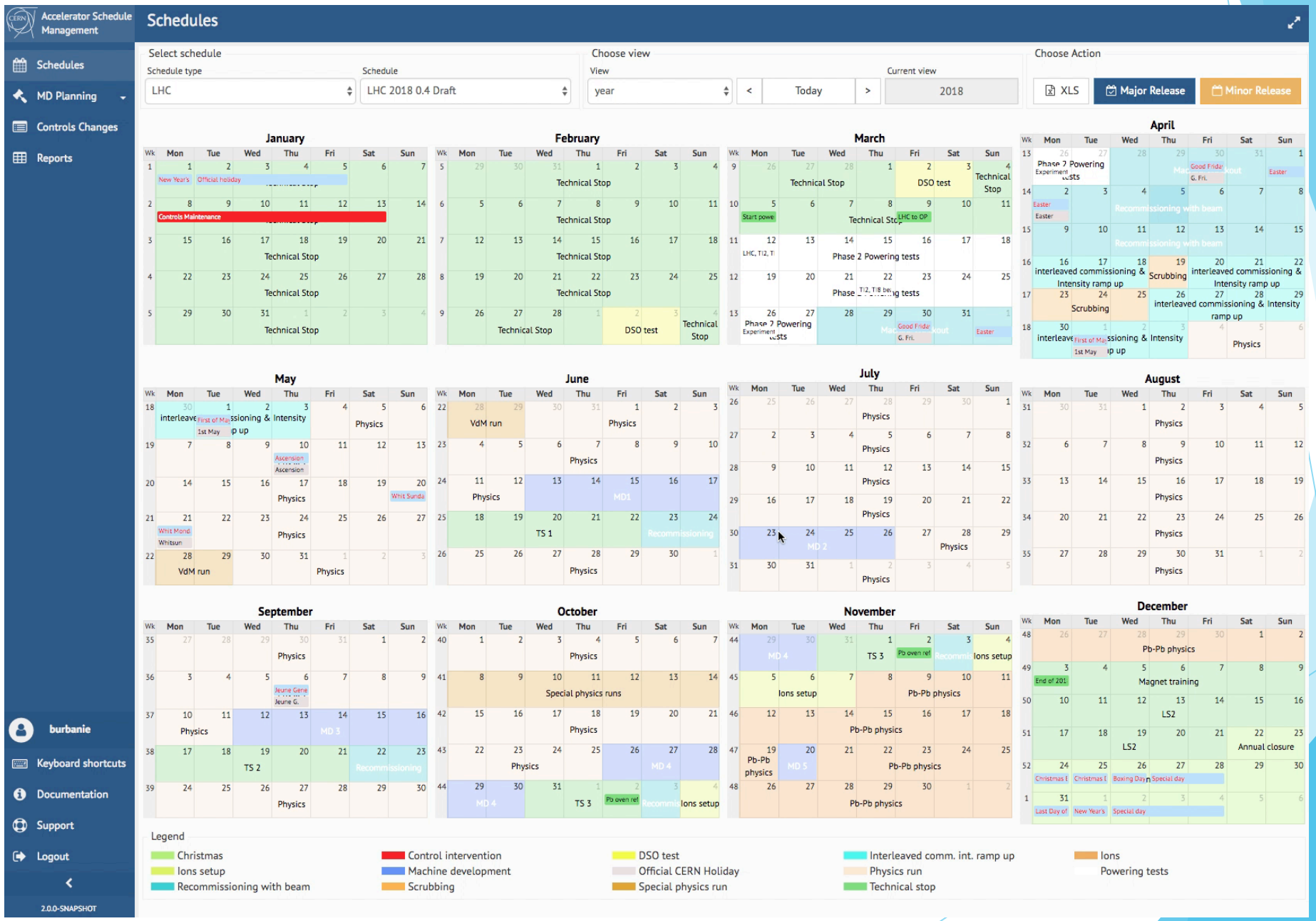
- **List view**, showing all MD requests with an **advanced search**
- Set of **configurable notifications** for MD coordinators and users (e.g. when MD is scheduled)
- Possibility to **upload supporting files** (e.g. MD procedure) directly in MD request
- Many improvements in the MD Request form
  - new fields like particle types
  - proper validations
  - automatic data completion
  - and more …

DEMO


Accelerator Schedule Management
Schedules
Schedules
MD Planning
Controls Changes
Reports
burbanie
Keyboard shortcuts
Documentation
Support
Logout
2.0.0-SNAPSHOT
Select schedule
Schedule type
LHC
Schedule
LHC 2018 0.4 Draft
Choose view
View
year
Today
Current view
2018
Choose Action
XLS
Major Release
Minor Release
January
February
March
April
May
June
July
August
September
October
November
December
Legend
Christmas
Control intervention
DSO test
Interleaved comm. int. ramp up
Ions
Ions setup
Machine development
Official CERN Holiday
Physics run
Powering tests
Recommissioning with beam
Scrubbing
Special physics run
Technical stop

DEMO


Accelerator Schedule Management
Schedules
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MD Planning
Controls Changes
Reports
burbanie
Keyboard shortcuts
Documentation
Support
Logout
2.0.0-SNAPSHOT
Select schedule
Schedule type
LHC
Schedule
LHC 2018 0.4 Draft
Choose view
View
year
Today
Current view
2018
Choose Action
XLS
Major Release
Minor Release
January
February
March
April
May
June
July
August
September
October
November
December
Legend
Christmas
Control intervention
DSO test
Interleaved comm. int. ramp up
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Future plans

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- Exposing History of MD request modifications (data is already captured)

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- Saving state of incomplete MD request (in case of network failure)

Target end 2018

- Various MD Statistics

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- Exposing History of MD request modifications (data is already captured)
- Yearly view of Dedicated MD requests (mainly for MD coordinators)

Questions